

INDUCTION OF VIRAL MUTATION BY INCORPORATION OF MISCODING
RIBONUCLEOSIDE ANALOGS INTO VIRAL RNA

ABSTRACT OF THE DISCLOSURE

The present invention is directed to the identification and use of ribonucleoside analogs to induce the mutation of an RNA virus, including BVDV, HIV and HCV, or a virus which otherwise replicates through an RNA intermediate. The increase in the mutation rate of the virus results in reduced viability of progeny generations of the virus, thereby inhibiting viral replication. In addition to these methods and related compositions, the invention provides methods and combinatorial chemistry libraries for screening ribonucleoside analogs for mutagenic potential.